WHAT IS CLAIMED IS

1. A write pulse generator comprising:

an adjusting section adjusting a width of write pulses to be generated;

a plurality of registers in which control values of adjusting made by said adjusting section are set;

a selecting section selecting a control value from said registers and supplying the control value to said adjusting section; and

a timing generator,

said registers being successively arranged in a plurality of stages so that the control values are successively copied to the registers in subsequent stages,

said timing generator generating timings at which the control values are successively copied to the registers in the subsequent stages,

said selecting section selecting and supplying to said adjusting section the control value held by a register in a final stage.

2. The write pulse generator as claimed in claim 1, further comprising:

a detector detecting a specific pulse length of the write pulses,

said timing generator generating one of said timings based on a timing at which said detector detects the specific pulse length.

3. The write pulse generator as claimed in claim 2, further comprising:

a comparator comparing a frequency of a channel clock having a variable frequency and a frequency of a clock having a fixed frequency, and outputting a compared result,

said timing generator generating one of said timings depending on the compared result.

4. An optical disk unit for writing data on an optical disk during a recording by a light beam which

is emitted in response to write pulses, comprising:

a write pulse generator generating the write pulses,

said write pulse generator comprising:

an adjusting section adjusting a width of write pulses to be generated during the recording;

a plurality of registers in which control values of adjusting made by said adjusting section are set;

a selecting section selecting a control value from said registers and supplying the control value to said adjusting section; and

a timing generator,

said registers being successively arranged in a plurality of stages so that the control values are successively copied to the registers in subsequent stages,

said timing generator generating timings at which the control values are successively copied to the registers in the subsequent stages,

said selecting section selecting and supplying to said adjusting section the control value held by a register in a final stage.

5. The optical disk unit as claimed in claim 4, wherein said write pulse generator further comprises a detector detecting a specific pulse length of the write pulses, said timing generator generating one of said timings based on a timing at which said detector detects the specific pulse length.

6. The optical disk unit as claimed in claim 5, wherein said write pulse generator further comprises a comparator comparing a frequency of a channel clock having a variable frequency and a frequency of a clock having a fixed frequency, and outputting a compared result, said timing generator generating one of said timings depending on the compared result.

7. A write pulse generator comprising:

adjusting means for adjusting a width of write pulses to be generated;

holding means for holding control values of

adjusting used by said adjusting means;

selecting means for selecting a control value from said holding means and supplying the control value to said adjusting means; and

timing generating means,

said holding means comprising a plurality of registers successively arranged in a plurality of stages so that the control values are successively copied to the registers in subsequent stages,

said timing generating means generating timings at which the control values are successively copied to the registers in the subsequent stages,

said selecting means selecting and supplying to said adjusting means the control value held by a register in a final stage.

8. The write pulse generator as claimed in claim 7, further comprising:

detecting means for detecting a specific pulse length of the write pulses,

said timing generating means generating one of said timings based on a timing at which said detecting means

detects the specific pulse length.

9. The write pulse generator as claimed in claim 8, further comprising:

comparing means for comparing a frequency of a channel clock having a variable frequency and a frequency of a clock having a fixed frequency, and outputting a compared result,

said timing generating means generating one of said timings depending on the compared result.

10. An optical disk unit for writing data on an optical disk during a recording by a light beam which is emitted in response to write pulses, comprising:

a write pulse generator generating the write pulses,

said write pulse generator comprising:

adjusting means for adjusting a width of write pulses to be generated during the recording;

holding means for holding control values of

adjusting used by said adjusting means;

selecting means for selecting a control value from said holding means and supplying the control value to said adjusting means; and

a timing generating means,

said holding means comprising a plurality of registers successively arranged in a plurality of stages so that the control values are successively copied to the registers in subsequent stages,

said timing generating means generating timings at which the control values are successively copied to the registers in the subsequent stages,

said selecting means selecting and supplying to said adjusting means the control value held by a register in a final stage.

11. The optical disk unit as claimed in claim 10, wherein said write pulse generator further comprises detecting means for detecting a specific pulse length of the write pulses, said timing generating means generating one of said timings based on a timing at which said detecting means detects the specific pulse

length.

12. The optical disk unit as claimed in claim 11, wherein said write pulse generating means further comprises comparing means comparing a frequency of a channel clock having a variable frequency and a frequency of a clock having a fixed frequency, and outputting a compared result, said timing generating means generating one of said timings depending on the compared result.